

ABSTRACT OF DISCLOSURE

The exhaust gas processing device is composed of an air preheater 3 for preheating air for combustion in a combustion device by using an exhaust gas emitted from the combustion device; a gas-gas heater (GGH) heat recovery device 4 composed of a heat transfer tube for recovering the heat of the exhaust gas to a heat medium; a dust collector 5; a wet-type desulfurization device 7; a gas-gas heater (GGH) re-heater 8 composed of a heat transfer tube for heating the exhaust gas at its outlet by using the heat medium supplied from the gas-gas heater heat recovery device 4, which are installed in that order from the upstream to the downstream of an exhaust gas duct of the combustion device. Furthermore, the heat transfer tube of the heat recovery device 4 is squarely arranged in the gas flow direction in such a manner that the exhaust gas flow rate (inter-tube flow rate) between heat transfer tubes adjacent in the direction orthogonal to the gas flow direction is 10 m/s or lower. As a result, abrasion and corrosion of the heat transfer tube can be reduced even when the exhaust gas contains a large amount of dust.